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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,823	01/17/2002	William J. Colucci	7391/72568	5347
42798 75	590 09/25/2006		EXAMINER	
FITCH, EVEN, TABIN & FLANNERY			TOOMER, CEPHIA D	
P. O. BOX 659 WASHINGTO		•	ART UNIT PAPER NUMBER	
			1714	
			DATE MAILED: 09/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/046,823	COLUCCI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cephia D. Toomer	1714				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 J	une 2006.					
·— · ·	s action is non-final.					
<u>, </u>						
, 	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	•					
Disposition of Claims						
4)⊠ Claim(s) 9,10,14,18-22 and 30-32 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9,10,14,18-22,30-32</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	. p					
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Burea	·	O				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) [Other:	,				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 28, 2006 has been entered.
- 2. This Office action is in response to the amendment filed May 26, 2006 in which claims 9, 10, 14, 18-20 and 30-32 were amended.
- 3. The previous rejection of the claims under 35 USC 112, first paragraph is withdrawn in view of the amendment to the claims.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 9, 10, 14, 18-22 and 32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does

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not support a formulation wherein a polyalkylene group derived from C₂, C₃, and C₅-C₂₀ alkenes is combined with unreacted polyisobutylene.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 9, 10, 30 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stayner (US 2,786,745).

Stayner teaches a fuel oil composition comprising a mixture of predominantly oil-soluble polyoxyalkylene ethers of alkyl phenols (see col. 1, lines 15-31; col. 2, lines 56-69). The compounds are prepared by alkylating phenol with an olefin containing 10-20 carbon atoms, such as those obtained by polymerizing straight and branched butylenes. Olefins containing 20 C atoms meet the limitation regarding the molecular weight of the claimed R group. The alkyl phenols produced in the alkylation process are than adducted with 8-40 moles of an alkylene oxide such as ethylene, propylene or butylene (see col. 3, lines 7-26). Stayner teaches that water is removed from the resultant product as well as a part of the unreacted olefin (see col. 3, lines 49-71). This teaching of unreacted olefins renders obvious component (ii) of the present invention. The fuel may be furnace oils, burner oils, diesel fuels and jet fuel (see col. 1, lines 25-31; col. 9,

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line 72 through col. 10, lines 1-2). Stayner teaches that the additive is present in the fuel in an amount of 1% by weight or less (see col. 10, lines 3-8). The composition may contain fuel additives (see col. 8, lines 32 through col. 9, lines 1-28). Stayner teaches the limitations of the claims other than the difference that is discussed below.

Stayner differs from the claims in that he does not specifically teach that the aromatic component is cresol. However, no unobviousness is seen in this difference because cresol and phenol are structurally similar and it would be reasonable to expect that these compounds would function in a similar manner.

8. Claims 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stayner and EP 827999.

Stayner has been discussed above. Stayner fails to teach that the fuel composition of his invention contains a Mannich base detergent. However, EP teaches this difference (see abstract).

It would have been obvious to one of ordinary skill in the art to include a Mannich base detergent because EP teaches that these compounds reduce or inhibit engine deposits and improve engine performance (see page 1, lines 1-9, 13-20).

9. Applicant's arguments have been fully considered but they are not persuasive.

Applicant argues that the claims have been amended to specify that the unreacted polyalkene is polyisobutylene and that Stayner does not disclose or suggest polyisobutylene as the unreacted olefin.

Stayner teaches in his method of preparing the oil-soluble polyoxyalkylene ether that the olefin may be branched chain olefins such as those obtained by polymerizing

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propylene or butylenes. This teaching clearly suggests isobutylene. Furthermore, the skilled artisan reading Stayner would be motivated to substitute polyisobutylene for the propylene polymer used in preparing the compound of his invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cephia D. Toomer whose telephone number is 571-272-1126. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cephia D. Toomer
Primary Examiner
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